

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which of the following represents an electric current?	A. $C^{⁻¹}$ B. $CS^{⁻¹}$ C. $JS^{⁻¹}$ D. dynes ⁻¹
2	Distance covered during one vibration of an oscillating body in terms of amplitude A is:	A. A B. 2 A C. 3 A D. 4 A
3	The motional e.m.f depends upon the	A. Length of a conductor B. Strength of a magnet C. Speed of the conductor D. All of the above
4	The direction of a vector in space requires:	A. X-axis B. X and Y-axes C. XYZ axes D. Y and Z-axes
5	Earth is considered to be	A. a non-inertial frame B. an inertial frame C. an accelerated frame D. none of the above
6	In case of the three dimensional deformation, when volume is involved, the ratio of applied stress to volumetric strain is called	A. Young's modulus B. Bulk modulus C. Shear modulus D. all of them
7	In above figures, tell which set of graphs shows that a body is moving with uniform velocity:	A. (i) and (ii) B. (ii) and (iii) C. (iii) and (iv)
8	SHM is type of _____ motion	A. Vibratory B. Linear C. Circular D. None
9	In the stress-strain graph, stress is increased linearly with strain until a point is reached, this point is known as	A. plastic limit B. plastic deformation C. proportional limit D. elastic behaviour
10	The highest efficiency of a heat engine whose low temperature is 17°C and the high temperature is 200°C is	A. 70% B. 100% C. 35% D. 38%
11	One coulomb of charge is created by	A. 10 electrons B. $1.6 \times 10^{⁻¹⁹}$ electrons C. 6.25×10^{¹⁸} electrons D. 6.25×10^{²¹} electrons
12	The distance from eye to near point is taken as:	A. 10 cm B. 15 cm C. 20 cm D. 25 cm
13	A cube of metal is given a positive charge Q. For the above system, which of the following statements is true?	A. Electric potential at the surface of the cube is zero B. Electric potential within the cube is zero C. Electric field is normal to the surface of the cube D. Electric field varies within the cube
14	The process which is carried out at constant temperature is known as	A. adiabatic process B. isothermal process C. isochoric process D. none of them
15	In a resonance situation the amplitude of the motion may become extra ordinarily large, if	A. the driving force is large B. the driving force is zero C. the driving force may be feeble

		D. all of them
16	The working of galvanometer depends upon torque exerted on a current carrying coil in	A. magnetic field B. electric field C. gravitational field D. nuclear field
17	Avo-meter is used of measure the	A. current, voltage B. voltage, resistance C. resistance, current D. current, voltage and resistance
18	The practical application of the phenomenon of Mutual induction is	A. Transformers B. Generator C. Motor D. All of these
19	Which of the following waves are more energetic	A. radio waves B. infrared waves C. ultraviolet D. γ-rays
20	The unit of decay constant is	A. sex B. sec^{-2} C. sec^{-1} D. sec^{-2}